Journal of Materials Processing Technology, 39 (1993) 487–489
Elsevier

Contents Volume 39

Vol. 39, Nos. 1–2, October 1993

Contents v
Publisher's Note vii

Guest Editorial
Changes in managerial behaviour and in the application of technology in the automative industry in the case of segmentation
U. Loos (Offenbach/Main, Germany) 1
Effects of air-blast pressure and exposure time on the shot-peening process
Z.M. Xiao, W.C. Fok and D.T. Lwin (Singapore) 13
A review of abrasive jet machining
N. Ramachandran and N. Ramakrishnan (Bombay, India) 21
Linear regression equations for modeling the submerged-arc welding process
L.J. Yang (Singapore), M.J. Bibby (Ottawa, Canada) and
R.S. Chandel (Singapore) 33
Forming behaviour of some sheet steel materials when drawn through a conical die
R. Narayanasamy (Tiruchirapalli, India) and R. Sowerby (Hamilton, Canada) ... 43
Elastomers in metal forming: A review
S. Thiruvarudchelvan (Singapore) 55
Computer simulation of metal flow in the hot upsetting of a high-strength aluminium alloy
A. Forcellese, F. Gabrielli (Ancona, Italy), F. Micari (Palermo, Italy)
and O. Zurla (Bologna, Italy) 83
Quantitative calculation of deformation tendencies in the drawing of plate with a hole
Wang Zhiheng and Tong Zheng (Hohhot, China) 101
Numerical simulation of the hydroforming process for 32-petal spherical vessels
Shihong Zhang, Z.R. Wang and Jianyi Wang (Harbin, China) 109
Representing and organising C-axis features information in a CAPP system for rotational parts
G. Manidhar, M. Jayantha, S.R.K. Jasthi, P.N. Rao and
R.K. Mittal (New Delhi, India) 119
Experimental investigation of microstructural damage in an A–K sheet subjected to two-stage straining
YaZheng Liu, De Yuan Dong and Kang Yuan (Beijing, China) 133
The optimum selection of technological parameters for liquid forging of pumice–aluminum composite materials
Luo Shoujing, He Shaoyuan and Ma Shimin (Harbin, China) 145
On the deformation and fracture behaviour of low-pressure gas (LPG) grade steel and two aluminium alloys
P.P. Date and K.A. Padmanabhan (Madras, India) 153
TiN coating of tool steels: a review
S.Y. Zhang and W.G. Zhu (Singapore) 165
Computer simulation of the plunge centreless grinding process
S.S. Pande (Bombay, India), A.R. Naik (Ponda, India) and
S. Somasundaram (Bombay, India) 179

Elsevier Science Publishers B.V.

Stress analysis of a cold forging process applied to a countersunk headed fastener
J.M. Monaghan (Dublin, Ireland) 191
Metalforming limit diagrams according to the *T*-criterion
N.P. Andrianopoulos (Athens, Greece) 213
Letter to the Editor 227
Book reviews 229
Diary of Events 231

Vol. 39, Nos. 3–4, November 1993

Contents i

The evaluation of powers and forces in four-sided-piece deep-drawing, using the U.B.E.T. method
G. Perotti and L. Iuliano (Torino, Italy) 239
A sensor for measuring metal deformation interface forces
J. Jeswiet (Kingston, Canada) and C. Nyahumwa (Dar-es-Salaam, Tanzania) 251
Application of the finite-element method to determine the flow during the extrusion of glass composites reinforced with long fibres
N. Klein, K. Langhans, H.-J. Mayer and E. Roeder (Kaiserslautern, Germany) .. 269
Mathematical modeling of plane-strain bending of sheet and plate
C. Wang, G. Kinzel and T. Altan (Columbus, OH, USA) 279
A simple model to estimate the thermal loads on an EDM wire electrode
S. Banerjee, B.V.S.S.S. Prasad and P.K. Mishra (Kharagpur, India) 305
Axial cold compression of sintered Al–4Cu disc- and ring-preforms
T.S. Rao and K.S. Pandey (Tiruchirapalli, India) 319
Effect of the choice and adjustment of the technical parameters on the cold rolling of spiral flight
S. Luo, H. Yang and W. Huo (Harbin, China) 327
A mathematical model for bend-allowance calculation in automated sheet-metal bending
Y.K.D.V. Prasad (Kowloon, Hong Kong) and S. Somasundaram (Bombay, India) . 337
Measurements of friction during the warm rolling of aluminum
J.G. Lenard and Z. Malinowski (Waterloo, Canada) 357
Analysis of the flat-rolling process: one-dimensional and finite-element models
Z. Malinowski, M. Pietrzyk (Krakow, Poland) and J.G. Lenard (Waterloo, Canada) 373
Explosively consolidated PVC–alumina powder mixtures
T.Z. Blazynski (Leeds, UK) 389
Development of a fixture-free machining center for machining block-like components
B.P. Bandyopadhyay, T. Hoshi, M.A. Latief and T. Hanada (Tempaku-cho, Japan) 405
Analysis of friction and pressure distributions along the die during plane-strain drawing
J. Kimmel, B. Avitzur and W. Szulc (Bethlehem, PA, USA) 415
Verification of an explicit finite-element code for the simulation of the press forming of rectangular boxes of coated sheet steels
L. Bernspång (Gothenburg, Sweden), T. Hammam (Stockholm, Sweden), K. Mattiasson (Gothenburg, Sweden), E. Schedin, A. Melander (Stockholm, Sweden) and A. Samuelsson (Gothenburg, Sweden) 431

A rate-dependent analysis and experiment on the sheet-stretching process
C.-H. Liu and Y.-M. Huang (Taipei, Taiwan, ROC) 455
Parametric study of residual stress due to shot peening
Z.M. Xiao, W.C. Fok and D.T. Lwin (Singapore) 469

Acknowledgement of Referees 485
Author Index Volume 39 486
Contents Volume 39 487